



## DC-LAMP (V-19): sc-83136

### BACKGROUND

DC-LAMP (DC-lysosome-associated membrane glycoprotein), also known as LAMP-3 (lysosomal-associated membrane protein 3), TSC403 or CD208, is a 416 amino acid lysosome membrane protein that belongs to the LAMP family. DC-LAMP is expressed in lung, lymphoid organs and dendritic cells, and is upregulated in carcinomas of the esophagus, colon, rectum, ureter, stomach, breast, fallopian tube, thyroid and parotid tissues. It is suggested that DC-LAMP may be responsible for changing lysosomal function after the transfer of peptide-MHC class II molecules to the surface of dendritic cells. DC-LAMP is thought to play an important part in enhancing metastatic potential and may be a prognostic factor for cervical cancer.

### REFERENCES

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7. Mayer, W.J., et al. 2007. Characterization of antigen-presenting cells in fresh and cultured human corneas using novel dendritic cell markers. *Invest. Ophthalmol. Vis. Sci.* 48: 4459-4467.
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### CHROMOSOMAL LOCATION

Genetic locus: Lamp3 (mouse) mapping to 16 A3.

### SOURCE

DC-LAMP (V-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of DC-LAMP of mouse origin.

### PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-83136 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

### APPLICATIONS

DC-LAMP (V-19) is recommended for detection of DC-LAMP of mouse and rat origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with family members LAMP-1 or LAMP-2.

Suitable for use as control antibody for DC-LAMP siRNA (m): sc-77100, DC-LAMP shRNA Plasmid (m): sc-77100-SH and DC-LAMP shRNA (m) Lentiviral Particles: sc-77100-V.

Molecular Weight of DC-LAMP: 70-90 kDa.

### RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

### PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.